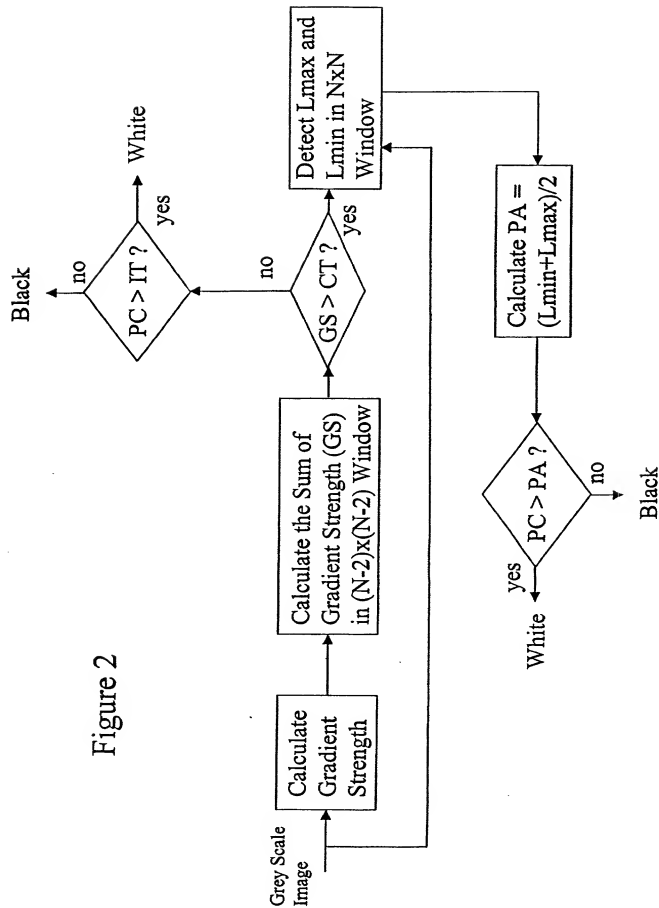


Figure 1

Figure 2



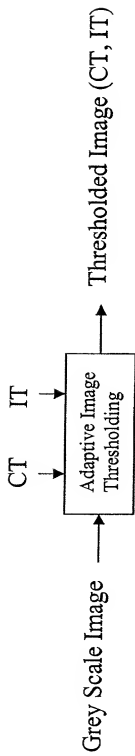


Figure 2A

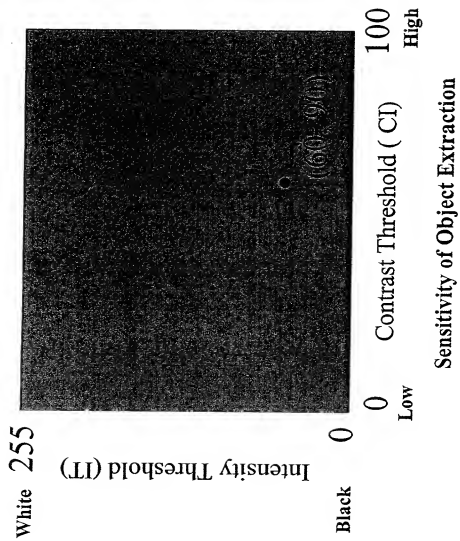


Figure 2B

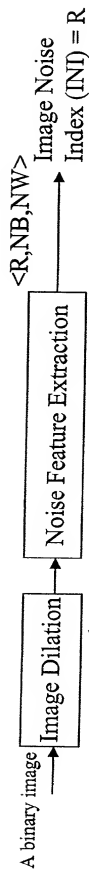


Figure 3

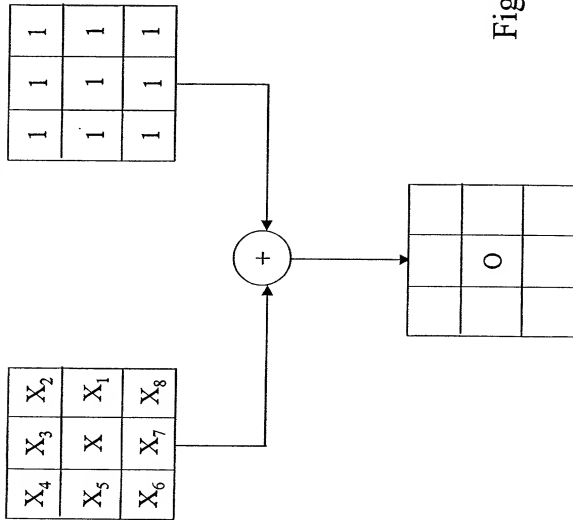


Figure 3A

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

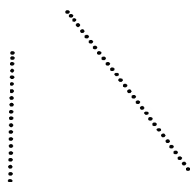


Figure 3B

100
90
80
70
60
50
40
30
20
10
0

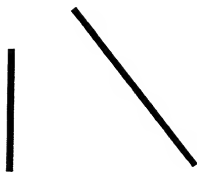
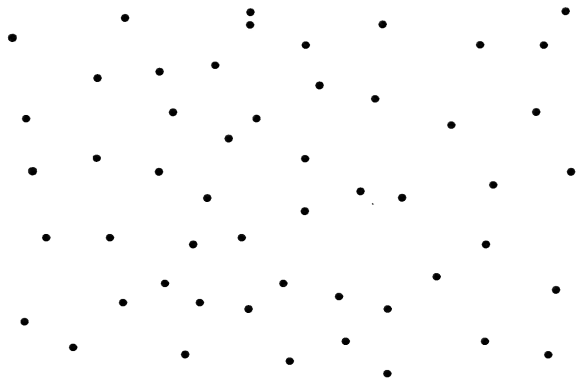


Figure 3C

DA = Document size

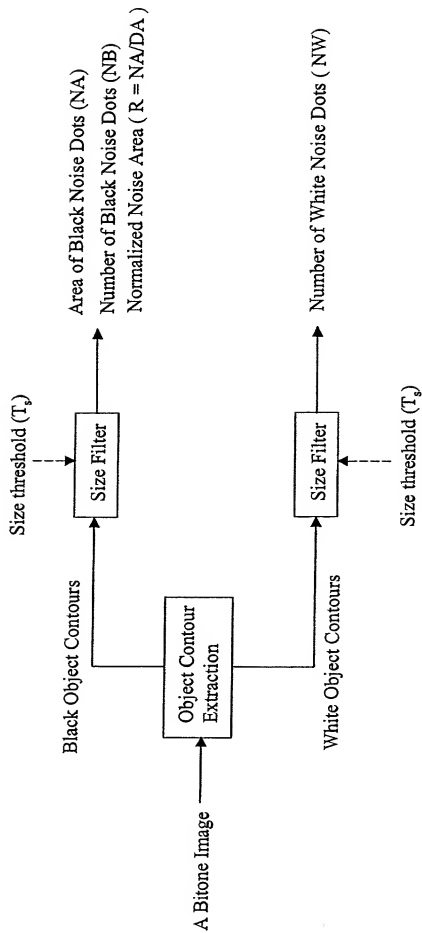
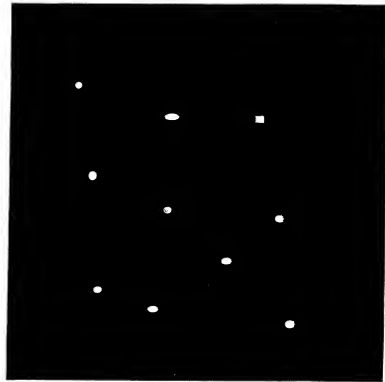


Figure 3D



Contour extraction
Using LUT

$$\begin{aligned} \text{NB} &= 20 & \text{NW} &= 10 & \text{NA} &= 20 * \text{Na} \\ & & & & \text{R} &= \text{NA} / \text{DA} \end{aligned}$$

Na = average noise size

Figure 3E

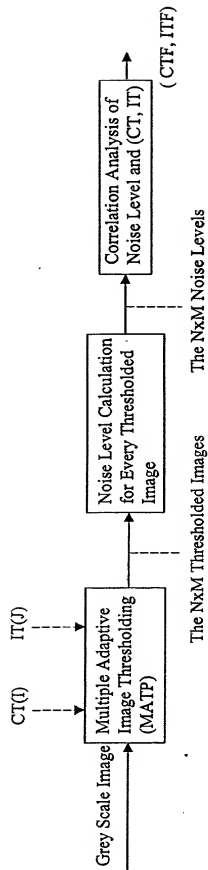


Figure 4

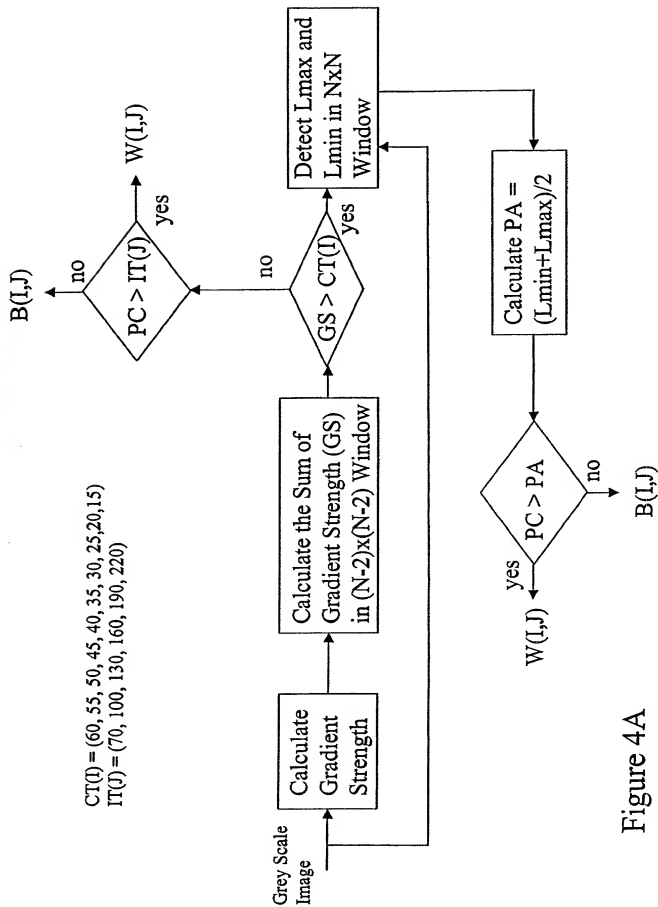


Figure 4A

		I =											
J	II	GT(I) IT(J)	60	55	50	45	40	35	30	25	20	15	
		70	R(60,70)	R(55,70)	R(50,70)	R(45,70)	R(40,70)	R(35,70)	R(30,70)	R(25,70)	R(20,70)	R(15,70)	
1	1	100	R(60,100)										
2	2	130	R(60,130)										
3	3	160	R(60,160)										
4	4	190	R(60,190)										
5	5	220	R(60,220)										
6	6												

Figure 4B

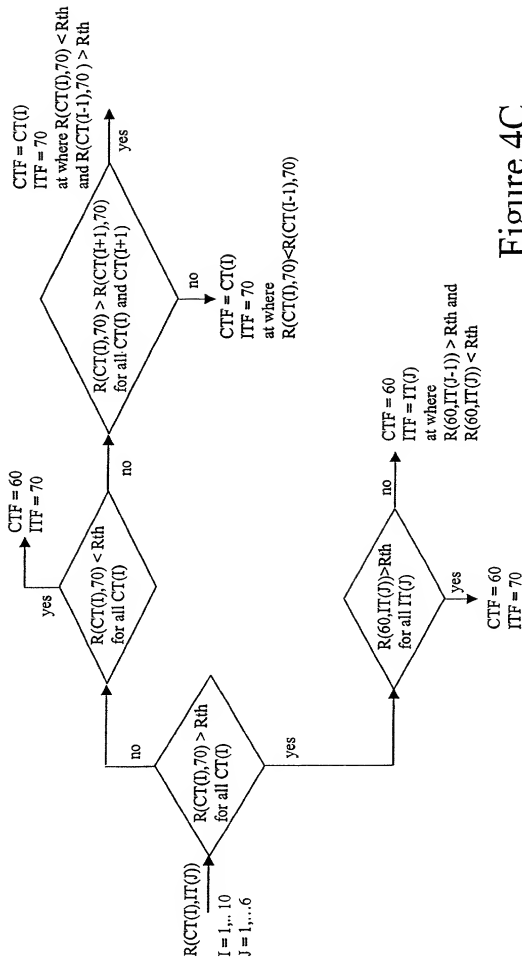


Figure 4C

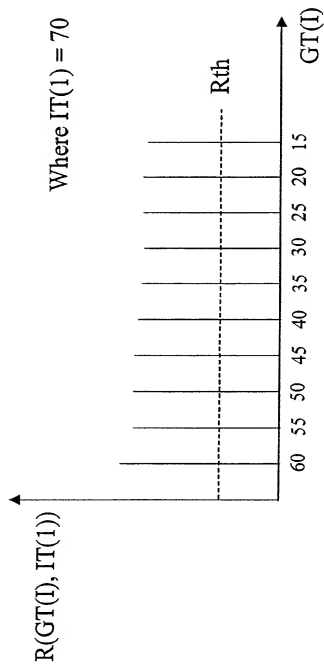


Figure 4D

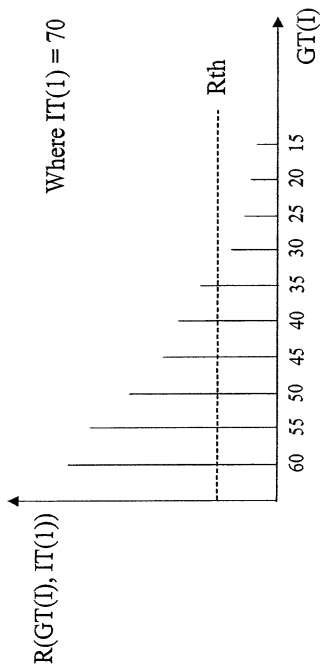


Figure 4E

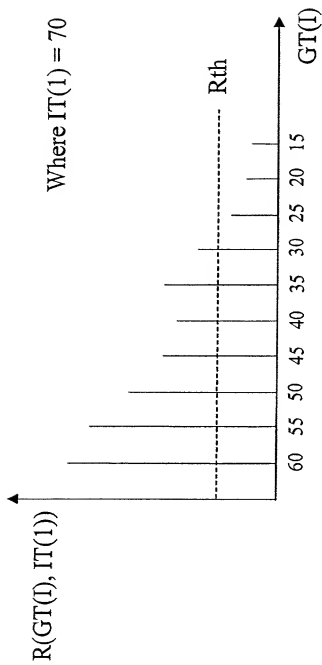


Figure 4F

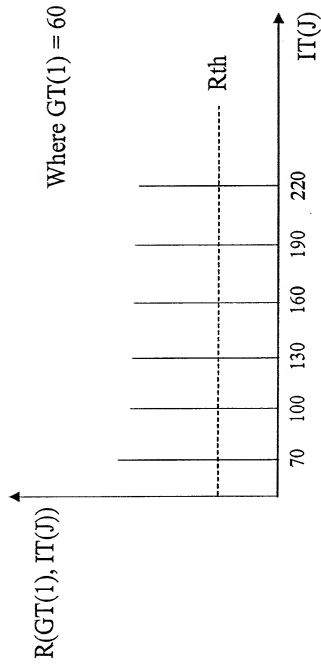


Figure 4G

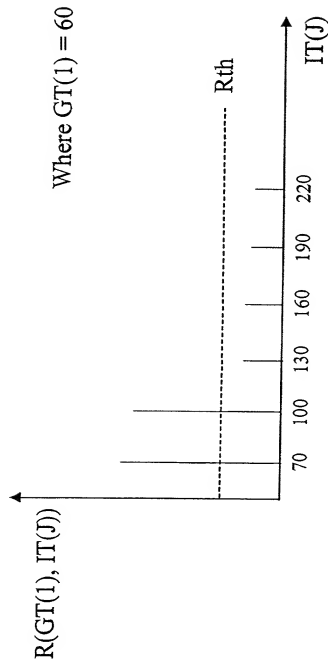


Figure 4H